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中国粗筒苣苔属(苦苣苔科)新分类群

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NEW TAXA OF *BRIGGSIA* CRAIB (GESNERIACEAE) FROM CHINA

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Key words *Briggsia*; *B. longicaulis*; *B. dongxingensis*; *B. longifolia* var. *multiflora*; *B. humilis*; *B. latisepala*; *B. acutiloba*; *B. rosthornii* var. *wenshanensis*; *B. rosthornii* var. *xingrenensis*; *B. parvifolia*

关键词 粗筒苣苔属;长茎粗筒苣苔;东兴粗筒苣苔;多花粗筒苣苔;小粗筒苣苔; 宽萼粗筒苣苔;尖瓣粗筒苣苔;文山粗筒苣苔;锈毛粗筒苣苔;小叶粗筒苣苔

1. 长茎粗筒苣苔 图1

Briggsia longicaulis W. T. Wang et K. Y. Pan, sp. nov.

Affinis *B. amabili* (Diels) Craib, a qua plantis altioribus, internodiis longioribus 5.5—10 cm longis, foliis oppositis, ovato-ellipticis, 4—10 cm longis, petiolis 2—12 cm longis, pedunculis et pedicellis glanduloso-pubescentibus, ovario sparse puberulo differt.

Herba perennis. Caules 60 cm alti, subglabri, internodiis 5.5—10 cm longis. Folia opposita, per paria inaequalia, longe petiolata; laminae ovato-ellipticae, 4—10 cm longae, 2.4—6 cm latae, apice acuminatae, basi anguste cuneatae, margine irregulariter denticulatae, supra adpresse pubescentes, subtus glabrae, nervis lateralibus utrinque 7—10 sparse adpresse villosis; petioli 2—12 cm longi, sparse adpresse villosi. Cymae axillares, 1—3-florae; pedunculi et pedicelli glanduloso-pubescentes; bracteae 2, oppositae, oblongae, 5—7 mm longae, 1—2 mm latae, intergrae, villosae; pedicelli c. 2.5 cm longi. Calyx campanulatus, ad basin 5-sectus, segmentis subaequalibus, oblongo-lanceolatis, 7—10 mm longis 1—2 mm latis, apice acuminatis, intergris, extus villosis. Corolla alba, crasse tubularis, 3—4.5 cm longa, 1—1.2 cm diam., extus pubescens, intus maculis purpureis instructa, tubo c. 3.4 cm longo; limbo bilabiato, c. 8 mm longo,

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labio postico 2-secto, lobis aequalibus, subrotundatis c. 4 mm longis, labio antico 3—lobato, lobis subrotundatis 4 mm longis. Stamina 4, ea postica 1.5 cm longa, 1 cm supra corollae basin inserta, ea antica c. 1.5 cm longa, 1.2 cm supra corollae basin inserta, filamentis gracilibus glabris, antheris per paria ventre apice cohaerentibus, loculis apice haud confuentibus. Discus annularis, c. 2 mm altus, interger. Pistillum sparse pubescens, c. 2.8 cm longum, ovario oblongo, 1.4 cm longo, stylo ovario aequilongo, stigmatibus 2, c. 1 mm longis, Capsulae non visae.

四川 (Sichuan): 布拖 (Butuo)，交际河区，对面山头，山坡密林下阴湿处，花白色，海拔 2500m，1959. 8. 24.，四川凉山经济植物普查队 (Exped. Pl. Econ. Liangshan 5836 (主模式 holotypus，PE)

本种近粗筒苣苔 *B. amabilis* (Diels) Craib，但植株较高大，节间长 5.5—10cm；叶对生，卵状椭圆形，长 4—10cm；叶柄长 2—12cm；花序梗和花梗被腺状柔毛，子房被疏柔毛，易于区别。

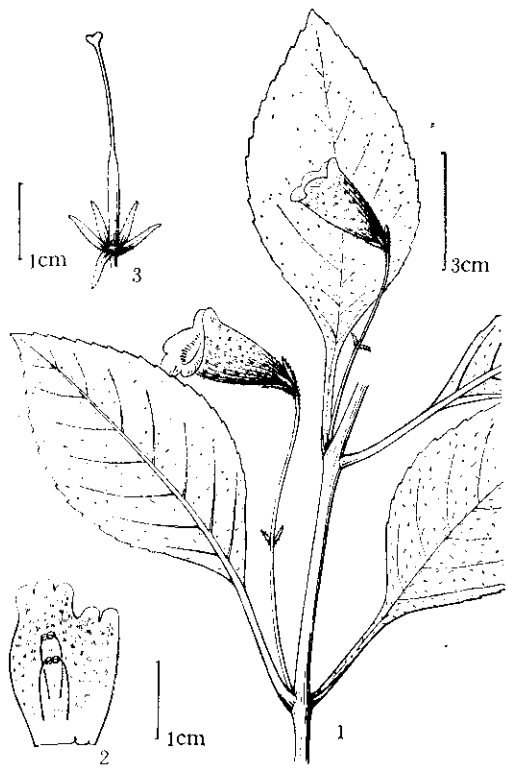

图 1　长茎粗筒苣苔 *Briggsia longicaulis*　1.植株部分 part of plant; 2. 花冠剖开示雄蕊 corolla opened up, showing stamens; 3. 雌蕊及花萼 pistil and calyx。(吴彰桦绘)

2. **东兴粗筒苣苔**　图 2：1—4

Briggsia dongxingensis Chun, sp. nov.

Affinis *B. amabili* (Diels) Craib, sed internodiis conspicuis. corolla prope basin abrupte constricta non maculata, filamentis prope apice sparse glandulloso-pubescentibus, ovario glabro, stylo glandulloso-puberulo differt.

Herba perennis. Caules 20—60 cm alti, dens pubescentes. Rhizoma 3—5 cm longum, c. 2 mm diam., dense brunneo-pubescens. Folia opposita, per paria inqaequalia; laminae anguste ellipticae, 4.5—16 cm longae, 2.5—6.5 cm latae, apice acuminatae vel cuspidatae, basi obliquae, margine denticulatae, supra puberulae, subtus dense longe pubescentes, nervis lateralibus utrinsecus 6—10 supra impressis subtus prominulis; petioli 1—2 cm longi, dense brunneo-villosi. Cymae sub apicem cauli axillares, 1—4-florae; pedunculi 7—10 cm longi, brunneo-puberuli; bracteae 2, lineari-oblongae, 3—4 mm longae, 1—1.2 mm latae, brunneo-puberulae; pedicelli 5—7 mm longi, brunneo-puberuli. Calyx campanulatus, ad basin 5-sectus, segmentis aequalibus, lineari-lanceolatis, 5—9-mm longis, c. 1.5 mm latis, apice acuminatis, integris, extus ferrugineo-villosis, intus glabris. Corolla flava, crasse tubularis, 3.7—4.2 cm longa, 1.5—1.7 cm diam., antice dilatata, prope basin abrupte constricta tenuiter tubularis, extus puberula, intus in limbo sparse puberula, limbo bilabiato, c. 1.1 cm longo, labio postico 2-lobato, lobis aequalibus subrotundatis c. 6 mm longis, labio antico 3-lobato, lobis subrotundatis 4—7 mm longis. Stamina 4,

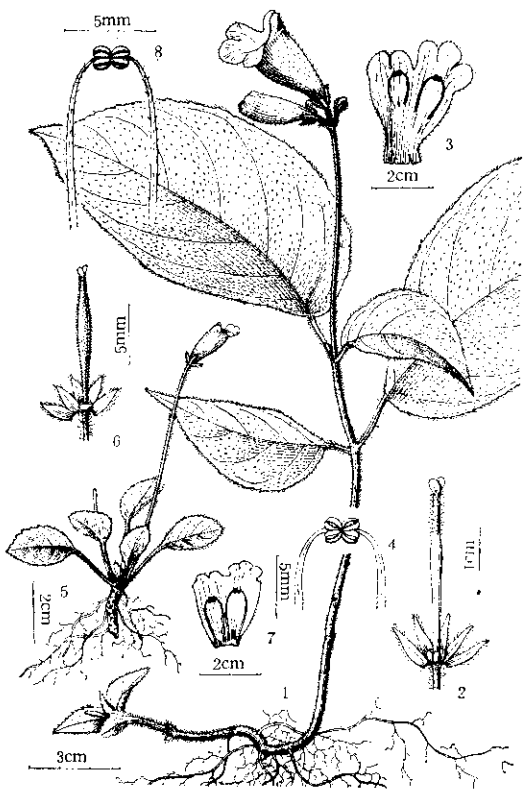

图 2 1—4。东兴粗筒苣苔 *B. dongxingensis* 1.植株 habit; 2. 雌蕊及花萼 pistil and calyx; 3. 花冠剖开示雄蕊 corolla opened up, showing stamens; 4. 雄蕊 stamens。5—8. 小叶粗筒苣苔 *B. parvifolia* 5. 植株 habit; 6. 雌蕊及花萼 pistil and calyx; 7. 花冠剖开示雄蕊 corolla opened up, showing stamens; 8. 雄蕊 stamens。(龚朝祯绘)

ea postica 1 cm longa, 1.5—2 cm supra corollae basin inserta, ea antica 1.6 cm longa, 1.5—1.8 cm supra corollae basin inserta, filamentis apice sparse glanduloso-pubescentibus, antheris per paria apice cohaerentibus c. 1.2 mm longis, loculis apice haud confluentibus. Staminodium 1.5 mm longum, 1.8 cm supra corollae basin insertum. Discus annularis, 1—2 mm altus. Pistill-

um 2.7—3 cm longum, ovario lineari-oblongo c. 2 cm longo 1—2 mm diam. glabro, stylo glandulloso-puberulo 7—11 mm longo, stigmatibus 2, Capsulae non visae.

广西 (Guangxi)：东兴 (Dongxing)，十万大山 (Shiwandashan)，梁向日 (X. R. Liang) 70078 (主模式 holotypus, SCBI)；同地 (eodem loco)，江平，江平调查组 (Exped. Jiangpang) 114 (GXMI)；Kuchun (恭城?)，Yao shan (瑶山?)，采集者不详 (sine nomine collectoris) 23734 (SCBI)。

本种与粗筒苣苔 *B. amabilis* (Diels) Craib 相近缘，但节间明显，花冠近基部突然收缩，无斑点，花丝近顶端疏生腺状柔毛，子房无毛，花柱短，被腺状柔毛，易于区别。

3b. **多花粗筒苣苔(变种)**

Briggsia longifolia Craib var. **multiflora** S. Y. Chen, var. nov.

A var. *longifolia* differt cymis c. 10-floris, pedicellis ferrugineo-villosis non glanduloso-pubescentibus.

四川 (Sichuan)：青川 (Qingchuan)，林下草丛中，海拔 1820m，花蕾紫蓝色，1965. 5. 31，采集者不详 (sine nomine collectoris) 2209 (主模式 holotypus, MS)。甘肃 (Gansu)：文县 (Wenshan)，山坡，海拔 1000m，何业琪 (Y. G. He) 1416 (WUG)；同地 (eodem loco)，海拔 1000m，魏志平 (Z. P. Wei) 2393 (WUG)。

与原变种的区别在于，聚伞花序具 10 花，花梗被锈色长柔毛，决不被腺状柔毛。

4. **小粗筒苣苔**　图 3：6—9

Briggsia humilis K. Y. Pan, sp. nov.

Habitu *B. agnesiae* (Forrest) Craib simillis, quae lobis corollae ovalibus vel subrotundatis apice rotundatis, pistillois glabrois, filamentis brevius glanduloso-pubescentibus, foliis minoribus 1.5—2.2 cm longis, 8—12 mm latis, floribus minoribus c. 1.8 cm longis c. 7 mm diam. differt.

Herba perennis. Rhizoma 2—3 cm longum, 5—10 mm crassaum. Folia omnia basalia, petiolata; laminae ovato-elliptcae, 1.5—2.2 cm longae, 8—12 mm latae, apice obtusae, basi leviter cordatae, margine serrulatae, supra bullatae, dense adpresse flavido-villosae, subtus dense ferrugneo-villosae, nervis lateralibus utrinsecus 5—6 supra impressis subtus prominulis; petioli 1.5—3 cm longi, dense ferrugineo-villosi. Cymae 2—3, axillares, 1—3-florae; pedunculi 7—9 cm longi, sparse ferrugineo-villosi; bracteae 2, oblongae, 3—4 mm longae, c. 1 mm latae, apice obtusae, ferrugineo-villosae. Calyx campanulatus, ad basin 5-sectus, segmentis aequalibus lanceolatis, c. 4 mm longis, c. 1 mm latis, apice acutis, integris, extus ferrugineo-villosis, intus glabris. Corolla lilacina, crasse tubularis, c. 1.8 cm longa, c. 7 mm diam., extus sparse pubescens, intus sparse glanduloso-puberula, tubo c. 1.2 cm longo, limbo bilabiato, labio postico 3.5 mm longo, ad medium 2-fido, lobis aequalibus subrotundatis c. 1.6 mm longis 1.5 mm latis, labio antico c. 7 mm longo, 3-partito, lobis ovatis c. 4 mm longis c. 3.3 mm latis intus flavis. Stamina 4, ea postica 4.5 mm longa, 1.5 mm supra corollae basin inserta, ea antica 6.5 mm longa, 2 mm supra corollae basin inserta, filamentis breve glanduloso-pubescentibus, antheris ovatis 1.6 mm longis per paria apice cohaerentibus, loculis apice confluentibus. Staminodium c. 1 mm longus, 0.8 mm supra corollae basin insertum. Discus annularis, 1.5 mm altus, irregulariter repandus. Pitillum subglabrum, c. 8 mm longum, ovario lineari-oblongo c. 6 mm longo c. 1.5 mm diam., stylo c. 1.5 mm longo, stigmatibus 2. Capsulae oblanceolatae, 6—8.5 cm longae, 4—6 mm diam., glabrae.

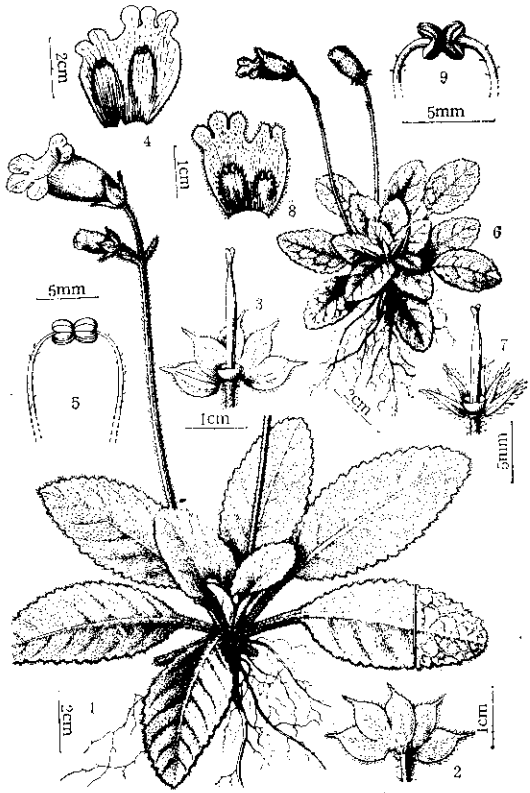

图3 1—5. 宽萼粗筒苣苔 *Briggsia latisepala* 1.植株 habit; 2. 花萼剖开示外面毛被 calyx opened up, showing outer indumentum; 3. 雌蕊及花萼 pistil and calyx; 4. 花冠剖开示雄蕊 corolla opened up, showing stamens; 5. 雄蕊 stamens。6—9. 小粗筒苣苔 *B. humilis* 6. 植株 habit; 7. 雌蕊及花萼 pistil and calyx; 8.花冠剖开示雄蕊 corolla opened up, showing stamens; 9. 雄蕊 stamens。(冀朝祯绘)

湖北 (Hubei): 利川 (Lichuan), 福宝山,燕石坪,沟边岩石上,花淡紫色,下唇内黄色,海拔 1300m, 1975. 8. 27., 黄仁煌 (G. R. Huang) 3535 (主模式 holotypus, HMDB, isotypus, WUBI; 恩施 (Enshi), 聂敏祥、李启和 (M. X. Nie et Q. H. Li) 1392 (SCBI).

本种与灰毛粗筒苣苔 *B. agnesiae* (Forrest) Craib 相近似,但花冠裂片卵圆形或近圆形,顶端圆形;雌蕊无毛,花丝短,被腺状短柔毛;叶较小,长 1.5—2.2cm, 宽 8—12mm; 花较小,长约 1.8cm, 直径约 7mm,有明显区别。

5. **宽萼粗筒苣苔** 图 3: 1—5

Briggsia latisepala Chun, sp. nov.

Affinis *B. chienii* Chun, quae lobis calycis late ovatis, c. 8 mm longis, 4—5 mm latis, apice caudatis, integris, ciliatis, extus secus costam ferrugineo-lanatis, ceterum subglabris, foliorum nervis lateralibus utrinsecus 5—7, filamentis stylisque glabris differt.

Herba perennis. Folia omnia basalia, rosulata, petiolata; laminae ellipticae, 4.5—6.5 cm longae, 2—3.5 cm latae, apice rotundatae, basi late cuneatae, margine acuto-denticulatae, supra

dense adpresse incano-pubescentes, subtus secus nervos dense ferrugnieo-lanatae, ceterum puberulae, nervis lateralibus utrinsecus 5—7, subtus prominulis, nervillis retem efformantibus; petioli 1—2.5 cm longi, dense ferrugineo- lanati. Cymae 2, axillares, 2-florae; pedunculi 11—18 cm longi, ferrugineo-lanati; bracteae 2, membranaceae, oblongae, 7 mm longae, 2 mm latae, apice acutae, integrae, ferrugineo-lanatae. Calyx campanulatus, c. 1 cm longus, ad basin 5-sectus, segmentis aequalibus, late ovatis, 8 mm longis, 4—5 mm latis, apice caudatis, integris, ciliatis, extus secus costam ferrugineo-lanatis, ceterum subglabris, intus glabris, nervis 5—7. Corolla purpurea, crasse tubularis, antice leviter ventricosa, c. 4 cm longa, extus sparse puberula, intus glabra, tubo 3 cm longo 1.5 cm lato; limbo bilabiato, labio postico 2-secto, lobis rotundatis 6 mm longis 5 mm latis, labio antico 3-fido, lobis ovatis 8 mm longis 6 mm latis. Stamina 4, ea postica 1.4 cm longa, 8 mm supra corollae basin inserta, ea antica 2 cm longa, 5 mm supra corollae basin inserta, filamentis glabris, antheris ovatis 1.2 mm longis per paria cohaerentibus, loculis apice haud confluentibus. Staminodium 0.9 mm longum, 6 mm supra corollae basin insertum. Discus annularis, 2 mm altus. Pistillum glabrum, c. 2 cm longum, ovario lineari c. 1.5 cm longo, stylo 3.5 mm longo, stigmatibus 2 aequalibus ovatis 1.5 mm longis. Capsulae non visae.

浙江 (Zhejiang)：云和 (Yunhe)，王蛇坞附近，山坡阴处，花紫色，1932.9.10，陈诗 (S. Chen) 837 (主模式 holotypus, SCBI)。

本种与浙皖粗筒苣苔 *B. chienii* Chun 近缘，但花萼裂片宽卵圆形，长约 8mm，宽 4—5mm，顶端尾尖，全缘，被睫毛，外面沿中脉被锈色绵毛，其余部分近无毛，侧脉每边 5—7 条；花丝花柱无毛，可以区别。

6. **尖瓣粗筒苣苔**　图 4

Briggsia acutiloba K. Y. Pan, sp. nov.

Affinis *B. agnesiae* (Forrest) Craib, quae foliis oblongis 3—6 cm longis, 1—2.2 cm latis, margine crenatis, supra puberulis et sparse ferrugineo-villosis, subtus sparse puberulis, nervis lateralibus utrinsecus 5—7, supra conspicuis, glabris, subtus prominentibus ferrugineo-villosis, cymis 4—5, umbraculiformibus 4-floris differt.

Herba perennis. Folia omnia basalia, petiolata; laminae oblongae, 3—6 cm longae, 1—2.2 cm latae, apice rotundatae, basi cuneatae, margine crenatae, supra puberulae et sparse ferrugineo-villosae, subtus sparse puberulae, nervis lateralibus utrinsecus 5—7, supra conspicuis glabris, subtus prominentibus ferrugineo-villosis; petioli 2—5 cm longi, dense ferrugineo-villosi. Cymae 4—5, umbraculiformes, axillares, 4-florae; pedunculi 5—13 cm longi, sparse ferrugineo-villosi et breve glanduloso-pubescentes; bracteae 2, lanceolatae, c. 6 mm longae, ferrugineo-villosae; pedicelli 1.8—2.5 cm long, sparse glanduloso-pubescentes. Calyx campanulatus, ad basin 5-sectus, segmentis lanceolatis, 5 mm longis, 2.5 mm latis, extus sparse ferrugineo-villosis, intus glabris, 3-nervis. Corolla crasse tubularis, antice leviter ventricosa, c. 3 cm longa, 1.3 cm diam., extus glabra, tubo c. 2 cm longo, limbo bilabiato, labio postico 6 mm longo, 2-lobato, lobis aequalibus anguste triangulatis 2.5 mm longis, labio antico 1 cm longo, ad medium 3-fido, lobis anguste triangulatis c. 5 mm longis apice acutis. Stamina 4, eapostica 1 cm longa, ad 6 mm supra corollae basin inserta, ea antica 1.5 cm longa, 5 mm supra corollae basin inserta, filamentis linearibus sparse pubescentibus, antheris ovatis 2 mm longis per paria apice cohaerentibus, loculis haud confluentibus. Staminodium c. 1.5 mm longus, 3.5 mm supra corollae basin insertum. Discus annularis, 2 mm altus, integer. Pistillum c. 9 mm longum, glanduloso-puberulum, ovario oblongo, 6 mm longo, stylo 2 mm longo, stigmatibus 2 oblongis 1 mm longis. Capsulae non visae.

云南 (Yunnan): 玉溪 (Yuxi),阴湿岩石上,海拔 2250m, 1958. 9. 23.,武素功 (S. K. Wu) 61 (主模式 holotypus, KUN)

本种近灰毛粗筒苣苔 *B. agnesiae* (Forrest) Craib 但叶长圆形,长 3—6cm,宽 1—2.2cm,边缘具圆齿,上面被短柔毛和锈色疏长柔毛,下面疏被短柔毛,侧脉每边 5—7 条,上面明显,下面隆起,被锈色长柔毛,聚伞花序伞状,4—5 条,具 4 花,易于区别。

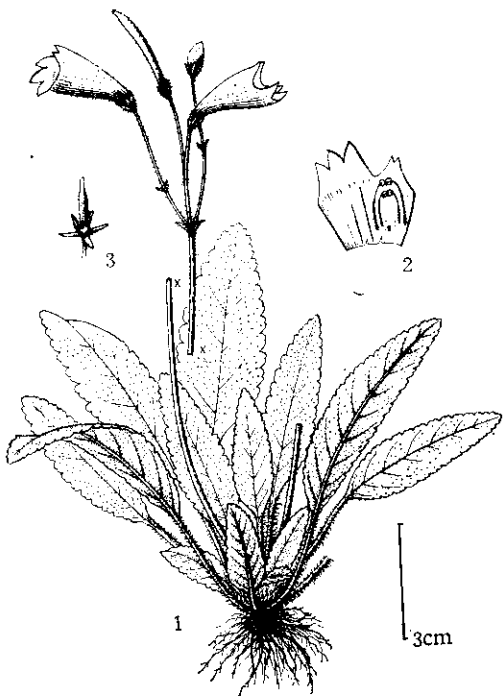

图 4 尖瓣粗筒苣苔 *Briggsia acutiloba* 1.植株 habit; 2. 花冠剖开示雄蕊 corolla opened up, showing stamens; 3. 雌蕊及花萼 pistil and calyx。(吴彰桦绘)

7b. **文山粗筒苣苔** 新变种

Briggsia rosthornii (Diels) Burtt var. **wenshanensis** K. Y. Pan, var. nov.

A var. *rosthornii* differt lobis posticis corollae 2-sectis, lobis subrotundatis, 5—6 mm longis, C. 0.6mm latis, tubo albo, maculis rubris (purpureis?) praedito.

云南 (Yunnan): 文山 (Wenshan), 左底大山,竹丛岩石上,海拔 2300m, 1958. 9. 27., 蔡希陶 (H. T. Tsai) 58—8170 (主模式 holotypus, KUN)

与原变种的区别在于: 花冠上唇 2 深裂,裂片近圆形,长约 5—6mm,花冠筒白色,有红色(紫色?)斑点。

7c. **锈毛粗筒苣苔**(变种)

Briggsia rosthornii (Diels) Burtt var. **xingrenensis** K. Y. Pan, var. nov.

A var. *rosthornii* differt foliis anguste ovatis, 3.2—7cm longis, 2—3.5cm latis, margine crenulatis, corolla tenui, c. 3.2cm longa, c. 1cm diam., lobis apice acutis.

贵州 (Guizhou)：兴仁 (Xingren)，龙头山，1960.9.26.，李朝斗 (C. D. Li) 308 (主模式 holotypus, GZMI)

与原变种的区别在于：叶狭卵圆形，长 3.2—7cm，宽 2—3.5cm，边缘具细圆齿，花冠细，长约 3.2cm，直径 1cm，裂片顶端锐尖。

8. **小叶粗筒苣苔**　图 2：5—8

Briggsia parvifolia K. Y. Pan, sp. nov.

Affinis *B. elegentissimae* (Lévl. et Van.) Craib, quae plantis humilibus, floribus minoribus 2—2.6 cm longis, 0.7—1 cm diam., limbis brevioribus, labiis posticis 1.5 mm longis, 2-lobulatis, labiis anticis c. 5 mm longis, foliis minoribus, 1—2 cm longis, petiolis laminis leviter longioribus differt.

Herba perennis. Folia omnia basalia, longe petiolata; laminae ellipticae, 1—2 cm longae, 0.7—1.2 cm latae, apice rotundatae, basi cuneatae, margine serrulatae, utrinque dense adpresse brunneolo-pubescentes, nervis subtus impressis, nervis lateralibus utrinque 4—5; petioli 0.7—2.4 cm longi, brunneolo-villosi. Cymae 2, axillares, 1-florae; pedunculi 5—6.5 cm longi, ferrugineo-villosi; bracteae 2, lineares, 1—1.3 mm longae, sparse ferrugineo-pubescentes. Calyx campanulatus, ad basin 5-sectus, segmentis oblongis, 2.5—3 mm longis, 0.8 mm latis, apice obtusis, integris ferrugineo-villosis. Corolla crasse tubularis, antice leviter ventricosa, 2—2.6 cm longa, 0.7—1 cm diam., extus glanduloso-puberula, intus antice 2-maculoso-striata, tubo c. 2.1 cm longo, limbo bilabiato, labio postico 1.5 mm longo, 2-lobulato, lobis c. 1 mm longis, labio antico c. 5 mm longo, 3-fido, lobis subrotundatis c. 3 mm longis. Stamina 4, ea postica 1.4 cm longa, 1 mm supra corollae basin inserta, ea antica 1.7 cm longa, 0.4 mm supra corollae basin inserta, filamentis breve glanduloso-pubescentibus, antheris ovatis 1 mm longis per paria cohaerentibus, loculis apice haud confluentibus. Staminodium 1 mm longum, basi corollae insertum. Discus annularis, 0.5 mm altus. Pitillum breve glanduloso-puberulum, 1.1 cm longum, ovario lineari-oblongo 0.9 cm longo, stylo 1.5 mm longo, stigmatibus 2, 0.5 mm longis. Capsulae non sivae.

贵州 (Guizhou)：地址不详 (sine loco) 1908 年，J. Cavalerie 3122 (主模式，holotypus, K)

本种与紫花粗筒苣苔 *B. elegentissima* (Lèvl. et Van.) Craib 相近似，但植株较矮小，花较小，长 2—2.6cm，直径 0.7—1cm，檐部较短，上唇长 1.5mm，微 2 裂，下唇长约 5mm；叶较小，长 1—2cm，叶柄稍长于叶片，有明显区别。